

## PATENT COOPERATION TREATY

## PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PC-9171	FOR FURTHER ACTION		See item 4 below
International application No. PCT/JP2004/006469	International filing date (day/month/year) 07 May 2004 (07.05.2004)	Priority date (day/month/year) 09 May 2003 (09.05.2003)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant THE NISSHIN OILLIO GROUP, LTD.			

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).
2. This REPORT consists of a total of 6 sheets, including this cover sheet.  
In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.
3. This report contains indications relating to the following items:
 

<input checked="" type="checkbox"/> Box No. I	Basis of the report
<input type="checkbox"/> Box No. II	Priority
<input type="checkbox"/> Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/> Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/> Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/> Box No. VI	Certain documents cited
<input type="checkbox"/> Box No. VII	Certain defects in the international application
<input checked="" type="checkbox"/> Box No. VIII	Certain observations on the international application
4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).

Date of issuance of this report 16 March 2006 (16.03.2006)	
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 740 14 35	Authorized officer Masashi Honda Telephone No. +41 22 338 70 10

**PATENT COOPERATION TREATY**

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

**PCT**

*Translation*

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

(PCT Rule 43bis.1)

Applicant's or agent's file reference <b>PC-9171</b>		Date of mailing (day/month/year)	
International application No. <b>PCT/JP2004/006469</b>		International filing date (day/month/year) <b>07.05.2004</b>	Priority date (day/month/year) <b>09.05.2003</b>
International Patent Classification (IPC) or both national classification and IPC			
Applicant <b>THE NISSHIN OILLIO GROUP, LTD.</b>			

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP	Authorized officer
Facsimile No.	Telephone No.

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.  
PCT/JP2004/006469

Box No. I	Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. <input type="checkbox"/> This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: <ul style="list-style-type: none"><li>a. type of material<ul style="list-style-type: none"><li><input type="checkbox"/> a sequence listing</li><li><input type="checkbox"/> table(s) related to the sequence listing</li></ul></li><li>b. format of material<ul style="list-style-type: none"><li><input type="checkbox"/> in written format</li><li><input type="checkbox"/> in computer readable form</li></ul></li><li>c. time of filing/furnishing<ul style="list-style-type: none"><li><input type="checkbox"/> contained in the international application as filed.</li><li><input type="checkbox"/> filed together with the international application in computer readable form.</li><li><input type="checkbox"/> furnished subsequently to this Authority for the purposes of search.</li></ul></li></ul>
3.	<input type="checkbox"/> In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			International application No. PCT/JP2004/006469
Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	1-31	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-31	NO
Industrial applicability (IA)	Claims	1-31	YES
	Claims		NO
2. Citations and explanations:			
Document 1: JP, 7-187947, A (The Nissin Oil Mills, Ltd.), 25 July, 1995 (25.07.95) Claims, [0005]-[0007], [0017], [0024]			
Document 2: JP, 7-173380, A (Mitsubishi Chemical Corporation), 11 July, 1995 (11.07.95) Claims, [0001], [0015]			
Document 3: JP, 8-143513, A (Taiyo Kagaku Co., Ltd.), 4 June, 1996 (04.06.96), Claims, [0001], [0003], [0011]			
Document 4: JP, 11-262653, A (The Nissin Oil Mills, Ltd.), 25 July, 1999 (25.07.99), Claims, [0008]			
Document 5: JP, 2003-55128, A (Sakamoto Yakuhin Kogyo Co., Ltd.), 26 February, 2003 (26.02.03), Claims			
Document 6: JP, 62-250941, A (Taiyo Kagaku Co., Ltd.), 31 October, 1987 (31.10.87), Claims, lines 11-15 in the right-hand bottom column of page 2			
Claims 1-31			
Claims 1-31 do not appear to involve an inventive step on account of documents 1-6 cited in the ISR. In document 1 described is a cosmetic containing polyglycerol fatty acid ester, of which average polymerization degree is 3-15 and total content of cyclic structural subsystem is ≤5 wt%, and oily material. Also described therein is that the hydroxyl value of said fatty acid ester is 320-610. In document 2 described is a composite comprising a polyglycerol fatty acid ester with 8-24 carbon number and ≥4 average polymerization degree and oily material. Also described therein is that said composite can be used in cosmetics.			
In document 3 described is a polyglycerol fatty acid ester from which low molecular weight reaction products are removed. Also described therein is that the carbon number of said fatty acid ester radical is 8-22, and that said polyglycerol is a mixture of various polyglycerols with varied polymerization degrees, but that there is an issue in which those polyglycerols with lower polymerization degrees are selectively esterified, while the higher molecular weight polymers are not esterified.[0012].			
In document 4 described is a cosmetic containing a fatty acid ester of oleic acid and polyglycerol with a 3-15 average polymerization degree and oily material.			
Based on the descriptions of documents 1-4 it is easy for a person skilled in the art to esterify polyglycerol mixtures having a preferable composition attained by removing cyclic structural subsystem and/or the lower molecular weight polymers with any fatty acid of suitable carbon number			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		International application No. PCT/JP2004/006469
Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement  for combining with oily material to use in a cosmetic.  As described in document 5 it is publicly known to use a composite containing a polyglycerol fatty acid ester and oily material for bathing agents and/or cleansing agents. As described in documents 5-6 it is also well-known to use alkylglucoside, lecithin and/or polyhydric alcohol fatty acid ester together with a polyglycerol fatty acid ester. Therefore it is easy for a person skilled in the art to restrict fields of use of such a composite or to use such a composite together with other publicly known ingredients.	

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.  
PCT/JP2004/006469

Box No. VIII    Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

In claims 1-31 the ends of sentences describing inventions in Japanese are concluded by such phrases as " ....is.", which makes the subject of invention unclear. By the way, in this written opinion examination is performed by treating the inventions as relating to the field of cosmetics.